

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL COAST REGION
895 Aerovista Place, Suite 101
San Luis Obispo, CA 93401-7906**

**MONITORING AND REPORTING REQUIREMENTS
ORDER NO. R3-2007-0008 (DRAFT)**

(Waste Discharger Identification No. 3 271001001)

FOR

**CALIFORNIA UTILITIES SERVICE
MONTEREY COUNTY**

A. WATER SUPPLY MONITORING

1. Representative samples of the water supply shall be collected and analyzed for the following:

Constituent	Units	Sample Type	Sampling Frequency
Total Dissolved Solids	mg/L	Grab	Annually - July
Sodium	mg/L	Grab	Annually - July
Chloride	mg/L	Grab	Annually - July
Sulfate	mg/L	Grab	Annually - July
Boron	mg/L	Grab	Annually - July
Nitrate (as N)	mg/L	Grab	Annually - July

B. INFLUENT MONITORING

1. Representative samples of the treatment facility influent shall be collected and analyzed for the constituents/parameters and at the frequencies specified in the following table:

Constituent/Parameter ^a	Units	Sample Type ^b	Sampling Frequency
Daily Flow Volume	gal/day	Metered	Continuous
Min Daily Flow	gal/day	Calculated	Monthly
Max Daily Flow	gal/day	Calculated	Monthly
Average Daily Flow	gal/day	Calculated	Monthly
pH	Units	Grab	Weekly
BOD ₅	mg/L	24-hour composite	Monthly
Total Suspended Solids	mg/L	24-hour composite	Monthly
Total Nitrogen (as N)	mg/L	24-hour composite	Monthly
Total Dissolved Solids	mg/L	24-hour composite	Semiannually ^c
Sodium	mg/L	24-hour composite	Semiannually ^c
Chloride	mg/L	24-hour composite	Semiannually ^c
Sulfate	mg/L	24-hour composite	Semiannually ^c
Boron	mg/L	24-hour composite	Semiannually ^c

Notes:

- a) Sampling for specific analytes may be reduced or discontinued after one year upon Discharger request and Executive Officer approval for parameters/constituents for which additional data provides no benefit.
- b) Composite samples shall be flow weighted. 24-hour composite samples shall be collected on a Monday through Sunday rotating schedule and subsequent monthly sampling events shall be separated by at least 16 days and no greater than 30 days.
- c) Semi-annual monitoring shall be conducted in January and July.

C. EFFLUENT MONITORING

1. Representative samples of treatment facility effluent shall be collected and analyzed for the constituents/parameters and at the frequency specified below for each treatment facility until such time as the effluent streams from both facilities are combined with a common disinfection treatment unit:

Constituent/Parameter ^a	Units	Sample Type	Sampling Frequency
Daily Flow ^b	gal/day	Metered	Continuous
Turbidity	NTU	Metered	Continuous
BOD ₅	mg/L	Grab	Weekly ^c
Total Suspended Solids	mg/L	Grab	Weekly ^c
Total Nitrogen (as N)	mg/L	Grab	Monthly ^c
Nitrate (as N)	mg/L	Grab	Monthly ^c
Ammonia (as N)	mg/L	Grab	Monthly ^c
pH	Units	Grab	Weekly ^c
Total Dissolved Solids	mg/L	Grab ^d	Semiannually ^e
Sodium	mg/L	Grab ^d	Semiannually ^e
Chloride	mg/L	Grab ^d	Semiannually ^e
Sulfate	mg/L	Grab ^d	Semiannually ^e
Boron	mg/L	Grab ^d	Semiannually ^e

Notes:

- a) Sampling shall occur immediately following the final treatment process (i.e. clarification, disinfection or dechlorination as applicable) unless noted otherwise.
- b) Flow as measured leaving the effluent storage ponds.
- c) Weekly and monthly samples shall be collected on a Monday through Sunday rotating schedule. Subsequent monthly sampling events shall be separated by at least 16 days and no greater than 30 days.
- d) Samples shall be collected from the final effluent storage pond to determine as delivered salts concentrations.
- e) Semi-annual monitoring shall be conducted in January and July.

D. GROUNDWATER MONITORING

1. Representative samples of groundwater shall be collected from monitoring wells MW-1, MW-2, MW-3, and MW-4. Samples of groundwater shall be collected and analyzed for the constituents and at the frequencies specified in the following table:

Constituent/Parameter ^{a, b, c}	Units	Sample Type	Sampling Frequency
Depth to Water	Feet	Measured	Quarterly
Total Nitrogen (as N)	mg/L	Grab	Quarterly
Nitrate (as N)	mg/L	Grab	Quarterly
Total Dissolved Solids	mg/L	Grab	Quarterly
Sodium	mg/L	Grab	Quarterly
Chloride	mg/L	Grab	Quarterly
Sulfate	mg/L	Grab	Quarterly
Boron	mg/L	Grab	Quarterly

Notes:

- a) Sampling for specific analytes or from specific monitoring wells may be reduced or discontinued after one year upon Discharger request and Executive Officer approval for parameters/constituents for which additional data provides no benefit.
- b) Provide well construction details for each monitoring well indicating total well depth and screen interval in depth below ground surface and elevations referenced to MSL along with the top of well casing elevation
- c) Based on review of available groundwater data the Executive Officer may request geologic and hydrogeologic documentation to ascertain whether the existing monitoring well network is sufficient to verify compliance with waste discharge requirements and whether additional monitoring wells are required.

E. EFFLUENT STORAGE POND & DISPOSAL AREA MONITORING

1. The Discharger shall inspect the effluent storage pond on a daily basis and record the depth and volume of stored effluent, and the volume of remaining available storage.
2. The Discharger shall inspect the land application disposal area(s) no less frequently than daily to verify and document compliance with Order No R3-2007-0008. The visual inspections shall be noted in a bound inspection logbook(s) and at a minimum shall document proper sprinkler operation, runoff, erosion, saturated surface conditions, and odors. The logbook(s) shall be made available to the Regional Board and Monterey County Department of Environmental Health upon request. A summary of observations made during land application disposal area inspections and a brief discussion of any corrective actions taken or planned shall be included with each annual monitoring report.

F. SOLIDS/BIOSOLIDS MONITORING

1. The following information shall be submitted with the Annual Report required by Standard Provision C.16:
 - a. Annual biosolids removed in dry tons and percent solids.
 - b. If appropriate, a narrative description of biosolids dewatering and other treatment processes, including process parameters. For example, if drying beds are used, report depth of application and drying time. If composting is used, report the temperature achieved and duration.
 - c. A description of disposal methods, including the following information as applicable related to the disposal methods used at the facility. If more than one method is used, include the percentage and tonnage of annual biosolids production disposed by each method.
 - i. For landfill disposal include: 1) the Regional Board WDR numbers that regulate the landfills used, 2) the present classifications of the landfills used, and 3) the names and locations of the facilities receiving biosolids.
 - ii. For land application include: 1) the location of the site(s), 2) the Regional Board's WDR numbers that regulate the site(s), 3) the application rate in lbs/acre/year (specify wet or dry), and 4) subsequent uses of the land.
 - iii. For offsite application by a licensed hauler and composter include: 1) the name, address and USEPA license number of the hauler and composter.
 - d. Copies of analytical data required by other agencies (i.e. USEPA or County Health Department) and licensed disposal facilities (i.e. landfill, land application, or composting facility) for the previous year.

G. REPORTING

1. The Discharger shall immediately report any non-compliance potentially endangering public health or the environment to the Regional Board (805/549-3147), the Monterey County Department of Environmental Health, and any other agencies as appropriate. Any information shall be provided orally within 24 hours from the time the Producer becomes aware of the non-compliance.

A written report shall also be submitted to the Executive Officer and the Monterey County Department of Environmental Health within five (5) days of the time the Discharger becomes aware of the circumstances. The written report shall contain (1) a description of the non-compliance and its cause; (2) the period of non-compliance, including dates and times, and if the non-compliance has not been corrected, the anticipated time it is expected to continue; and (3) steps taken or planned to reduce, eliminate, and prevent reoccurrence of the non-compliance.

2. The Discharger shall submit **Quarterly** monitoring reports by the first of the second month following the end of each quarter as follows:

Monitoring Period	Report Submittal Date
January 1 – March 31	May 1 st
April 1 – June 30	August 1 st
July 1 – September 30	November 1 st
October 1 – December 31	February 1 st

3. The monitoring reports shall contain all data collected or calculated over the previous quarterly monitoring period. All monitoring data shall be tabulated in a logical and coherent format and be accompanied by copies of laboratory analytical data sheets as applicable. The data shall be summarized in a manner that clearly illustrates compliance with the Order.
4. **By January 30th of each year** the Discharger shall submit an annual monitoring report Pursuant to Standard Provisions and Reporting Requirements, General Reporting Requirement C.16 which states:

"By January 30 of each year, the discharger shall submit an annual report to the Regional Board. The report shall contain both tabular and graphical summaries of the monitoring data obtained during the previous year. The Discharger shall discuss the compliance record and corrective actions taken, or which may be needed, to bring the discharger into full compliance. The report shall address operator certification and provide a list of current operating personnel and their grade of certification. The report shall inform the Board of the date of the Facility's Operation and Maintenance Manual (including contingency plans as described in Provision A.24), of the date the manual was last reviewed, and whether the manual is complete and valid for the current facility. The report shall restate, for the record, the laboratories used by the discharger to monitor compliance with effluent limits and provide a summary of performance relative to Section B, General Monitoring Requirements."

The annual reports shall also include the following:

- a. A complete electronic copy of the previous years data in a Microsoft Excel TM spreadsheet format;
 - b. Biosolids data as specified above;
 - c. The Nutrient Management Plan report as specified in paragraphs B.17 through B.22 of Order No. R3-2007-0008; and,
 - d. The Salt Management Program report as specified in paragraphs B.23 through B.24 of Order No. R3-2007-0008.
5. If the Discharger monitors any pollutant more frequently than is required by this Monitoring and Reporting Program, the results of such monitoring shall be included in the monitoring reports.

H. PROVISIONS

1. All quarterly monitoring shall be performed any time during the monitoring quarter (calendar quarter), but samples representative of two consecutive quarterly periods must be separated by at least one month. Monthly sampling shall be conducted at regularly scheduled times during each month and consecutive events should be approximately four weeks apart and no less than two weeks apart. Unless otherwise specified by the Monitoring and Reporting Program, annual sampling shall be performed any time during the calendar year, but samples representative of two consecutive annual periods must be obtained at least six months apart.
2. All monitoring must be conducted according to test procedures established by 40 Code of Federal Regulations Part 136, entitled, "Guidelines Establishing Test Procedures for Analysis of Pollutants." All sampling analyses shall be conducted at the lowest practical quantitation limits achievable under U.S. EPA specified methodology. In cases where effluent limits are set below the lowest achievable practical quantitation limits, constituents not detected at the practical quantitation limit will be considered in compliance with effluent limitations.
3. All samples collected shall be tracked and submitted under chain of custody and analyzed by a laboratory certified by California Department of Health Services for the specified analysis.
4. This Monitoring and Reporting Program may be revised at any time during the Permit term, as necessary, under the authority of the Executive Officer.
5. The Discharger shall submit a copy of each monitoring report along with a completed copy of the attached monitoring and reporting program transmittal sheet to:

California Regional Water Quality Control Board
Central Coast Region
895 Aerovista Place, Suite 101
San Luis Obispo, CA 93401

I. IMPLEMENTATION

1. This monitoring and reporting program shall be implemented immediately. However the Discharger will be allowed a two-month grace period to procure equipment and establish new sampling protocols and sampling locations as necessary for new monitoring requirements contained within this Monitoring and Reporting Program.

Ordered By: _____
Executive Officer

Date _____

California Regional Water Quality Control Board
Central Coast Region
Attn: Monitoring and Reporting Review Section
895 Aerovista Place, Suite 101
San Luis Obispo, CA 93401-7906

Mr. Briggs:

Facility Name:

Address:

Contact Person:

Job Title:

Phone Number:

WDR/NPDES Order Number:

Type of Report (circle one):

Monthly Quarterly Semi-Annual Annual

Month(s) (circle applicable months*):

JAN	FEB	MAR	APR	MAY	JUN
JUL	AUG	SEP	OCT	NOV	DEC

*Annual Reports (Circle the first month of the reporting period)

Year:

Violation(s) (Place an X by the appropriate response):

____ No (there are no violations to report) ____ Yes

If 'Yes' is marked, complete a-g:

a) Parameter(s) in Violation:

b) Section(s) of WDR/NPDES Violated:

c) Reported Value(s):

d) WDR/NPDES Limit or Condition:

e) Dates of Violation(s):

(reference page of report/data sheet)

f) Explanation of Cause(s):

(attach additional information as needed)

g) Corrective Action(s):

(attach additional information as needed)

In accordance with the Standard Provisions and Reporting Requirements, I certify under penalty of law that this document and all attachments were prepared under my direction or supervision following a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my knowledge of the person(s) who manage the system, or those directly responsible for data gathering, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

If you have any questions or require additional information, please contact me at the number provided above.

Sincerely,

Name:

Title:

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL COAST REGION**

81 Higuera Street, Suite 200
San Luis Obispo, California 93401-5427

ORDER NO. 95-23

**WATER DISCHARGE REQUIREMENTS
FOR**

**CALIFORNIA UTILITIES SERVICE, INC.
AND INDIRECT DISCHARGES
MONTEREY COUNTY**

The California Regional Water Quality Control Board, Central Coast Region (hereafter Board), finds:

1. California Utilities Service, Inc. (CUS), P.O. Box 5100, Salinas, CA (hereafter Discharger), owns and operates a wastewater collection, treatment, and disposal system to provide sewage service to Toro Area of Monterey County, as shown on Attachment "A".
2. On November 8, 1994, Robert T. Adcock, President, submitted a complete application for reissuance of Waste Discharge Requirements to incorporate changes in the sewage treatment system. Waste Discharge Requirements Order No. 87-124, adopted by the Board on July 10, 1987, is being revised pursuant to §13260 of the California Water Code as a result of significant changes in wastewater treatment capacity and processes.
3. The Discharger's wastewater treatment system was formerly owned and operated by Salinas Utility Services and Toro Management Services. The ownership was transferred to the Discharger in March, 1986.
4. The Discharger is directly responsible for wastewater collection, transport, treatment, and disposal from each user connected to the system. It is incumbent upon the Discharger to protect the environment to the greatest degree possible and insure its system is protected and utilized properly. This responsibility includes preventing overflows and may include restricting sewer connections to the system.
5. Wastewater treatment consists of screening, two Sequencing Batch Reactors, an aerobic sludge digester, and a chlorine disinfection system.
6. California Utilities Services's wastewater treatment plant has a 300,000 gallons per day (1,137 m³/day) average daily flow design capacity and a peak daily flow capacity of 450,000 gallons per day. Treated effluent is discharged to 31.5 acres of spray disposal fields adjacent to the Salinas River, as shown on Attachment "A". A total of 45 acres, owned by the discharger, is designated and available for development as effluent disposal area.
7. Digested sludge produced from the facility is dewatered and disposed to the Marina landfill.
8. An area wide waste treatment management plan, entitled Water Quality Management Plan for the Monterey Bay Area (208 Plan), was adopted by the Association of Monterey Area Governments, a designated 208 agency, on July 12, 1978, and subsequently certified by the State Water Quality Control Board on September 21, 1978. The 208 Plan recommends investigations of municipal treatment and disposal methods within the Salinas Valley for alternatives that would reduce nitrates discharges to ground waters. The CUS treatment system has shown significant nitrogen removal capability from influent wastewater.
9. Soils in the irrigation area consist of river silts which readily absorb wastewater. Depth to ground water varies seasonally depending on rainfall and river state. Depth to ground water was 18 feet in

February 1992. Saline ground water condition exists in the vicinity of the irrigation areas due to saltwater intrusion from the Monterey Bay.

10. The Water Quality Control Plan, Central Coast Basin (Basin Plan) was adopted by the Board on November 17, 1989, and approved by the State Water Resources Control Board on August 16, 1990. The Basin Plan incorporates statewide plans and policies by reference and contains a strategy for protecting beneficial uses of State waters.

11. Present and anticipated beneficial uses of the ground water in the vicinity of the discharge include:

- a. agricultural water supply;
- b. municipal and domestic water supply,
- c. industrial use.

12. The present and potential beneficial uses of the Salinas River include:

- a. Water Contact Recreation,
- b. Non-contact Water Recreation,
- c. Agricultural Water Supply,
- d. Warm Freshwater Habitat,
- e. Migration of Aquatic Organisms,
- f. Wildlife Habitat.

13. These waste discharge requirements are for an existing facility and must comply with the provisions of the California Environmental Quality Act (Public Resources Code, Section 21000, et seq.) in accordance with Section 15101, Chapter 3, Title 14, of the California Code of Regulations.

14. Discharge of waste is a privilege, not a right, and authorization to discharge is conditional upon the discharge complying with provisions of Division 7 of the California Water Code and any more stringent effluent limitations necessary to implement water quality control plans, to protect beneficial uses and to prevent nuisance. Compliance with this Order should assure this and mitigate any potential adverse changes in water quality due to the discharge.

15. On December 9, 1994, the Board notified the Discharger and interested agencies of its intent to issue waste discharge requirements for the discharge, provided them with an opportunity to submit their written views and recommendations, and scheduled a public hearing.

16. In a public hearing on February 10, 1995, the Board heard and considered all comments pertaining to the discharge and found this Order consistent with the above findings.

IT IS HEREBY ORDERED, pursuant to authority in Section 13263 of the California Water Code, that California Utilities Service, Inc., its agents, successors, and assigns, may discharge waste from its Reservation Road wastewater facility providing they comply with the following:

(General permit conditions, definitions and the method of determining compliance are contained in the attached "Standard Provisions and Reporting Requirements for Waste Discharge Requirements," dated January 1984. Applicable paragraphs are referenced in paragraph D.3. of this Order.)

Requirements specified in the proposed Order are based on staff's professional judgement and the:

A = Basin Plan.

Throughout the proposed Orders and Monitoring and Reporting Program (MRP), footnotes are included to indicate the source of specified requirements. Requirements not referenced are based on professional judgement.

A. DISCHARGE PROHIBITIONS

1. Discharge of any wastewater from transport, treatment, or disposal systems (including overflow, bypass, and overspray) to the Salinas River, the Salinas River Channel, drainageways, and adjacent properties, is prohibited.

2. Discharge to any location other than the spray disposal area shown on Attachment "A", is prohibited.

<u>Constituent</u>	<u>Units</u>	Monthly	Daily
		<u>Average</u>	<u>Maximum</u>
Total Dissolved Solids	mg/l	1000	1500
Settleable Solids	ml/l	-	0.5

3. Discharge within 100 feet of any well used for domestic supply is prohibited.^A
4. Discharge of any waste other than treated domestic-type sewage wastewater from the service area as described in Finding No.1 is prohibited.
5. Discharge of any runoff from the sludge drying areas to the Salinas River, the Salinas River Channel, drainageways, and adjacent properties, is prohibited.
6. Discharge of waste sludge within the floodplain is prohibited.^A

B. EFFLUENT LIMITATIONS

- The discharge to the irrigation areas shall be secondary wastewater and shall not exceed the following limits:^A
- Volume discharged shall not exceed average annual flow of 300,000 GPD (1,137 m³/day).
- The discharge shall not have a pH of less than 6.5 or greater than 8.3.^A
- The discharge shall contain at least 1.0 mg/l Dissolved Oxygen at all times.^A
- Freeboard shall exceed 0.5 meters (20 in.) in wastewater ponds and wastewater discharge area shall be completely diked with at least 0.5 meters (20 in.) above adjacent grade.^A
- Extraneous surface drainage shall be excluded from wastewater ponds and irrigation areas.

7. Free chloride residual shall equal or exceed one (1) mg/l, as measured within the chlorine contact zone.

8. Existing wastewater facilities shall retain wastewater flows, sewer infiltration or inflow, and precipitation from a 100-year rainfall season and allow for six days extra storage for spray field drying and repairs.

9. Wastewater loading rates (pounds of pollutants/acre/day and gallons of wastewater/acre/day) of land areas shall be based on rational engineering considerations and shall assure that wastewater percolate meets the terms of this Order. For duration of this Order, the daily wastewater application rate shall not exceed 17,000 gallons-per-acre-per day.

10. Wastewater disposal areas shall be managed to rest successively one-third of the area at any time.

11. Wastewater disposal areas shall be posted in English and in Spanish, around the perimeter of the discharge area to warn: Wastewater Disposal Area - Access Restricted.

12. Discharge to wastewater disposal areas shall cease and all wastewater shall be diverted immediately to the emergency storage reservoir if:

- Disinfection of wastewater ceases at any time; or
- Discharge specifications are violated or are threatened with violation.

12. Wastewater application to disposal areas shall not exceed the infiltration rates of the underlying soils after adjustment for slopes. Ponding in the discharge area shall not occur.

13. No wastewater discharge shall occur when it is raining or the discharge area is flooded.

14. Discharge to the spray disposal areas shall occur only when there is at least two (2) feet separation between the surface and the ground water.

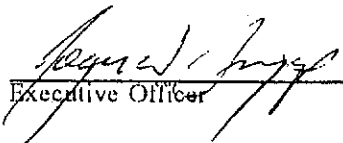
C. GROUND WATER LIMITATIONS

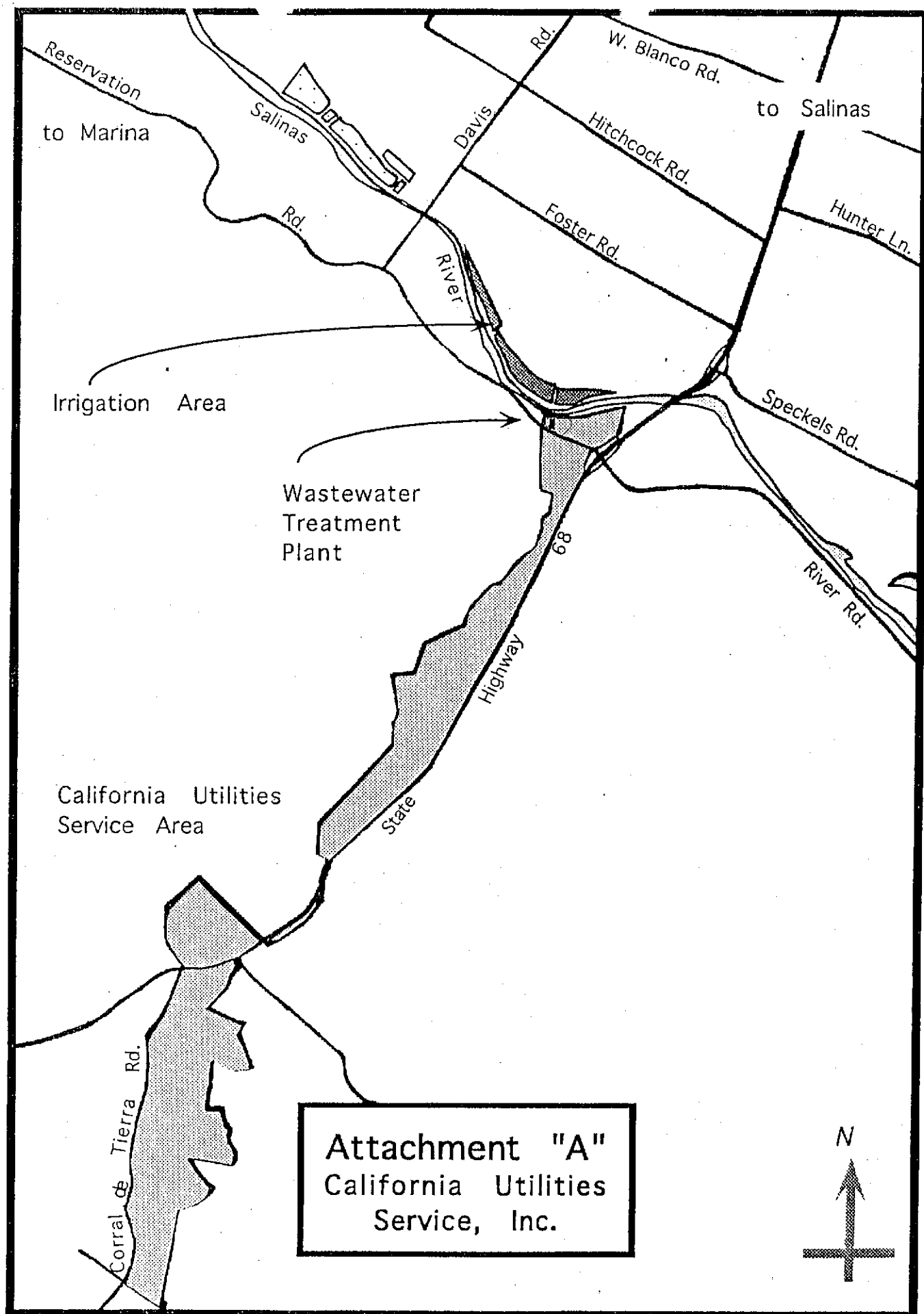
1. The discharge shall not cause nitrate concentrations in the ground water downgradient of the irrigation area to exceed 8 mg/l (as N).^A
2. The discharge shall not cause a significant increase of mineral constituent concentrations in underlying ground waters, as determined by comparison of samples collected from wells located upgradient and downgradient of the irrigation area.^A
3. The discharge shall not cause concentrations of chemicals and radionuclides in ground water to exceed limits set forth in Title 22, Chapter 15, Articles 4, 4.5, 5, and 5.5 of the California Code of Regulations.^A
4. The discharge shall not cause a violation of any applicable water quality standard for ground waters adopted by the Regional Board or the State Water Resources Control Board as required by the Clean Water Act and regulations adopted thereunder.^A
3. The Discharger shall comply with all items of the attached "Standard Provisions and Reporting Requirements for Waste Discharge Requirements," (also referred to as "Standard Provisions") dated January, 1984. In the Standard Provisions, "disposal ponds" and "disposal areas" as used therein shall mean "storage reservoirs" and "spray disposal areas," respectively.
4. The discharger shall prepare and follow operation and contingency plans (see standard provisions A.24. and A.25.). The plans and its revisions are subject to review and approval by the Executive Officer.
5. Standby power with automatic switch-over devices shall be provided to assure a continuous power source to all sewage system components that are dependent upon power or proper functioning.
6. The Discharger shall maintain an ongoing sewer infiltration and inflow correction program.
7. Pursuant to Title 23, Chapter 3, Subchapter 9, of the California Code of Regulations, the Discharger must submit a written report to the Executive Officer not later than September 1, 1999, addressing:

D. PROVISIONS

1. Order No. 87-124, "Waste Discharge Requirements for California Utilities Services and Indirect Dischargers, Monterey County," adopted by the Board on July 10, 1987, is hereby rescinded.
2. The Discharger shall comply with "Monitoring and Reporting Program No. 95-23," as ordered by the Executive Officer.
 - a. Whether there will be changes in the continuity, character, location, or volume of the discharge; and,
 - b. Whether, in its opinion, there is any portion of the Order that is incorrect, obsolete, or otherwise in need of revision.

I, ROGER W. BRIGGS, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, Central Coast Region, on February 10, 1995.


Executive Officer



CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL COAST REGION

MONITORING AND REPORTING PROGRAM NO. 95-23

FOR
CALIFORNIA UTILITIES SERVICE, INC.
AND INDIRECT DISCHARGERS
MONTEREY COUNTY

Water Supply monitoring

Representative samples of the domestic water supply shall be collected and analyzed annually for the following constituents:

<u>Constituent</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Minimum Frequency of Sampling and Analysis</u>
Total Dissolved Solids	mg/l	Grab	Annually, August
Sodium	mg/l	Grab	" "
Chloride	mg/l	Grab	" "
Sulfate	mg/l	Grab	" "
Boron	mg/l	Grab	" "

Effluent Monitoring

Representative samples of the effluent discharged to the spray disposal area shall be collected and analyzed for the constituents and at the frequencies specified below:

<u>Constituent</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Minimum Frequency of Sampling and Analysis</u>
Flow Volume	gallons	metered	Daily
Maximum Daily Flow	gallons per day	---	Monthly
Mean Daily Flow	gallons per day	Calculated	Monthly
Settleable Solids	ml/l	Grab	3 times per week (MWF)
Total Coliform Organisms	MPN/100ml	Grab	Weekly
Dissolved Oxygen	mg/l	Grab	Every Other Week
pH	pH units	Grab	Monthly

<u>Constituent</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Minimum Frequency of Sampling and Analysis</u>
Total Kjeldahl Nitrogen (as N)	mg/l	Grab	Monthly
Nitrate (as N)	mg/l	Grab	Monthly
Total Dissolved Solids	mg/l	8-hr Composite	Semi-Annually (February and August)
Sodium	mg/l	8-hr Composite	" "
Chloride	mg/l	8-hr Composite	" "
Sulfate	mg/l	8-hr Composite	" "
Boron	mg/l	8-hr Composite	" "

Receiving Water Monitoring

Samples of groundwater shall be collected from shallow wells located upgradient and downgradient of the disposal area. After depth to ground water has been measured, the wells shall be purged and samples shall be collected for each of the following:

<u>Constituent</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Minimum Frequency of Sampling and Analysis</u>
Depth to Groundwater	feet	Measured	Semi-Annually (February and August)
Total Kjeldahl Nitrogen (as N)	mg/l	Grab	" "
Nitrate (as N)	mg/l	Grab	" "
Total Dissolved Solids	mg/l	Grab	" "
Sodium	mg/l	Grab	" "
Chloride	mg/l	Grab	" "
Sulfate	mg/l	Grab	" "
Boron	mg/l	Grab	" "

Disposal Area Inspection

The Discharger shall make at least weekly inspections of the spray disposal area. In making the inspection, the Discharger shall note compliance status with this Order, particularly Discharge Prohibition A.1. and applicable Discharge Specifications. A log of these inspections shall be maintained. A summary of observations made during the inspection shall be submitted with each monthly monitoring report.

Sludge Monitoring

Sludge samples shall be taken annually and analyzed for the following metals:

Arsenic	Copper	Nickel
Cadmium	Lead	Selenium
Chromium	Mercury	Zinc

The results of the analysis shall be submitted with the annual report and should include sludge quantities and destination of sludge disposal.

Reporting

Quarterly monitoring reports shall be submitted by the dates listed in the following:

Sampling and Analyzing Frequency	Report Due
Daily, Weekly, and Monthly	last Day of Each Month
Semi-Annual Monitoring	last Day of March and September
Annual Monitoring	last Day of September

ORDERED BY


Executive Officer

February 10, 1995

Date